

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application. Please cancel claims 1 to 21, and add the following new claims 22 to 45:

22. A plant cell which has been transformed with a vector having a nucleic acid which expresses a plant polypeptide having gibberellin 2-oxidase enzyme activity; wherein said polypeptide is expressed at a level sufficient to inhibit growth in a plant grown from said transformed plant cells.
23. The plant cell of claim 22, wherein said polypeptide is a gibberellin 2-oxidase enzyme from *Phaseolus* or *Arabidopsis*.
24. The plant cell of claim 23, wherein said polypeptide is a gibberellin 2-oxidase enzyme from *Phaseolus coccineus* or *Arabidopsis thaliana*
25. The plant cell of claim 22, wherein said nucleic acid comprises nucleotides 68 to 1063 of SEQ ID NO:1.
26. The plant cell of claim 25, wherein said nucleic acid comprises SEQ ID NO:1.
27. The plant cell of claim 22, wherein said nucleic acid encodes a polypeptide with an amino acid sequence consisting essentially of SEQ ID NO:2.

28. The plant cell of claim 22, wherein said nucleic acid comprises nucleotides 41 to 1027 of SEQ ID NO:5.
29. The plant cell of claim 28, wherein said nucleic acid comprises SEQ ID NO:5.
30. The plant cell of claim 22, wherein said nucleic acid encodes a polypeptide with an amino acid sequence consisting essentially of SEQ ID NO:6.
31. The plant cell of claim 22, wherein said nucleic acid comprises nucleotides 109 to 1131 of SEQ ID NO:7.
32. The plant cell of claim 31, wherein said nucleic acid comprises SEQ ID NO:7.
33. The plant cell of claim 22, wherein said nucleic acid encodes a polypeptide with an amino acid sequence consisting essentially of SEQ ID NO:8.
34. The plant cell of claim 22, wherein said nucleic acid comprises SEQ ID NO:9.
35. The plant cell of claim 22, wherein said nucleic acid encodes a polypeptide with an amino acid sequence consisting essentially of SEQ ID NO:10.

36. The plant cell of claim 22, wherein said nucleic acid comprises a coding sequence operatively linked to a promoter.
37. The plant cell of claim 36, wherein said promoter is a constitutive promoter.
38. The plant cell of claim 36, wherein said promoter is specific for expression in a particular plant cell.
39. The plant cell of claim 22, wherein said expression of said polypeptide having the activity of a gibberellin 2-oxidase enzyme results in a reduced concentration of bioactive gibberellins in a plant grown from said plant cell.
40. The plant cell of claim 22, wherein said polypeptide catalyses the 2 β -oxidation of a C₁₉-gibberellin molecule to introduce a hydroxyl group at C-2.
41. The plant cell of claim 40, wherein said polypeptide further catalyses the oxidation of the hydroxyl group introduced at C-2 to yield the ketone derivative.
42. The plant cell of claim 22, wherein said inhibition of plant growth reduces bolting in a plant grown from said plant cell.
43. A transgenic plant or part thereof grown from said plant cell of claim 22.

44. A plant material capable of proliferation, obtained from the plant cell of claim 43.
45. A plant material as claimed in claim 44 which is selected from the group
consisting of protoplasts, cells, calli, tissues, organs, seeds, embryos, egg cells,
and zygotes.